

LOW-VOLATILITY FUNCTIONAL FLUID COMPOSITIONS USEFUL
UNDER CONDITIONS OF HIGH THERMAL STRESS AND METHODS FOR
THEIR PRODUCTION AND USE.

5

Abstract of the Disclosure

10 This invention relates to functional fluids incorporating base stocks and base oils that exhibit an unexpected combination of high viscosity index (130 or greater) and a ratio of measured-to-theoretical high-shear/low-temperature viscosity at -30C or lower, and the methods of making them. Specifically, the present invention relates to low-volatility / low-viscosity functional fluids comprising novel base stocks, with particular performance advantages in lubricating materials under high thermal stress, and methods to produce them.